

## ABSTRACT

The invention described herein encompasses methods of preventing or treating disorders caused by oxidative damage by an aging-specific isoform of NADH oxidase (AR-  
5 NOX). The invention encompasses methods of assaying, screening, and identifying agents that inhibit AR-NOX, as well as methods using ubiquinone to inhibit the ability of AR-NOX to generate reactive oxygen species. These agents may be formulated into pharmaceutical compositions in the prevention and treatment of disorders caused by oxidative damage.

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